

Application No. 09/612,543
Supplemental Amendment dated October 26, 2007

Docket No.: 1982-0153P

AMENDMENTS TO THE CLAIMS

1-13. (Canceled)

14. (Previously presented) A method for manufacturing a radiation image conversion panel, comprising the steps of:

a) dispersing a calcined product of stimuable phosphor in a dispersion medium, to obtain a slurry;

b) eliminating grains that are of at least a predetermined size from the slurry of step a), using wet classification;

c) substituting the dispersion medium with a solvent capable of substantially dissolving the binder, while maintaining a slurry in steps (a) - (c);

d) adding to the slurry of step c), a binder that is substantially soluble therein, to prepare a coating material; and

e) applying the coating material to a support and drying to thereby form a phosphor layer.

15. (Original) A method for manufacturing a radiation image conversion panel according to claim 14, wherein the step of substituting the dispersion medium includes concentrating the slurry to adjust density of a stimuable phosphor in the slurry.

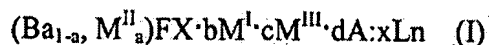
16. (Original) A method for manufacturing a radiation image conversion panel according to claim 14, wherein the step of eliminating grains that are of at least a predetermined size, includes repeating wet classification a plurality of times.

17. (Original) A method for manufacturing a radiation image conversion panel according to claim 14, wherein the step of eliminating grains that are of at least a predetermined size, includes using a final mesh size in the wet classification of no more than 50 μm .

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18. (Previously presented) A method for manufacturing a radiation image conversion panel according to claim 14, wherein the step of dispersing includes providing a calcined product of a stimuable phosphor that is a rare earth-activated alkaline earth metal fluoro-halide based phosphor, represented by a constitutional formula (I) as follows:



wherein, M^{II} indicates at least one kind of alkaline earth metal selected from the group consisting of Sr, Ca, and Mg; M^I indicates at least one kind of alkali metal selected from the group consisting of Li, Na, K, Rb, and Cs; M^{III} indicates at least one kind of trivalent metal selected from the group consisting of Al, Ga, In, Tl, Sc, Y, Cd, and Lu, wherein compounds that contain M^{III} exclude Al_2O_3 ; X indicates at least one kind of halogen selected from the group consisting of Cl, Br, and I; Ln indicates at least one kind of rare earth element selected from the group consisting of Ce, Pr, Sm, Eu, Gd, Tb, Dy, Ho, Nd, Er, Tm, and Yb; A indicates at least one kind of metallic oxide selected from the group consisting of Al_2O_3 , SiO_2 , and ZrO_2 ; and a, b, c, d and x are respectively set so as to satisfy relational expressions $0 \leq a \leq 0.3$, $0 \leq b \leq 2$, $0 \leq c \leq 2$, $0 \leq d \leq 0.5$, and $0 < x \leq 0.2$.

19. (Original) A method for manufacturing a radiation image conversion panel according to claim 15, wherein concentrating the slurry includes using decantation.

20-25. (Canceled)